## Exercise 1: Central Dogma of Biology [/Life]



**Pikachurin** is an extracellular matrix-like retinal protein first described in 2008 in Japan by Shigeru Sato et al., and named after Pikachu, a character of the *Pokémon* franchise. <sup>[2]</sup> The name of this "nimble" protein was inspired due to Pikachu's "lightning-fast moves and shocking electric effects."

**DNA sequence** (part of the *EGFLAM* gene):

**Reverse complement sequence:** 

**mRNA sequence** (*hint*: DNA strand is read in the  $3' \rightarrow 5'$  direction):

**Protein amino-acid sequence** (*hint*: mRNA strand is read in the  $5' \rightarrow 3'$  direction):

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